

INTEGRIN BINDING MOTIF CONTAINING PEPTIDES AND METHODS OF TREATING SKELETAL DISEASES

ABSTRACT OF THE DISCLOSURE

Peptide sequences comprising 10 to 50 amino acids are disclosed. The sequences are characterized by containing at least one of an integrin binding motif such as an RGD sequence, a glycosaminoglycan binding motif, and a calcium binding motif, and the remainder of amino acids contiguous with the RGD sequence in matrix extracellular phosphoglycoprotein. The sequences may be formulated for injection or dispersed in toothpaste or a mouthwash or gum patch and administered to enhance bone/tooth growth and/or reduce excessive urinary phosphate loss from the body.

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